ENIGMA Innovative Training Network

4th school on *Flow and Transport in Porous and Fractured Media,*Development, Protection, Management and Sequestration of

Subsurface Fluids

Summer School

June 25 to July 6, 2018 Corsica, France

























Workshops Schedule

- 2017 9-20 october Liege/Ploemeur (Advanced subsurface imaging « field oriented » with training on database), with Network meeting in between
- 2018 7-16 February Lausanne/Neufchatel (Advanced inverse modeling and stochastic representation of complex media, Predictive modelling and upscaling) with break event (TDD) (UT, CSIC, UNINE, UNIL)
- 2018 25 June- 6 July Summer school Corsica (Sensing and modelling of flow and transport processes) by CNRS
- · 2010 Barcalana lifactima chill and midtarm ravious of the FCD
- 2019 July Groundwater Quality with special session
- 2020 Final conference Copenhagen

June 25 to July 6, 2018

NETWORK wide events adjacent to the workshops

Where?













Who?









You!

...and ~80 others

General idea (max capacity 105):

- ~60 PhD
- ~10 Post-Docs
- ~10 young researchers (<10 years experience)
- ~20 confirmed researchers (>10 years experience)
- ~5 industrial partners







General objective (SPIC): Study Subsurface Processes In the Critical zone by observation, experimentation, and modelling

Learning objectives (1 per day):

- Flow in Saturated Media
- Unsaturated and multiphase flow
- Geophysics
- Transport Phenomena
- Geochemistry and reactive transport
- Large scale Hydrology
- Modelling
- Energy transport and storage
- **Hydromechanics**
- Microbiology and Ecohydrology









<u>General objective (SPIC):</u> Study <u>Subsurface Processes In the Critical zone</u> by observation, experimentation, and modelling

Speakers from ENIGMA

External Speakers (confirmed)

- Kamini Singha
- Rien van Genuchten
- Auli Niemi
- Cyprien Soulaine
- Rien van Genuchten
- Dani Or
- Robin Tecon
- Jerôme Gaillardet
- Bridget Scanlon

- Antonio Rinaldi
- Michel Quintard
- Jennifer Druhan
- Martin Blunt
- Patrick Tabeling
- Insa Neuweiler
- Michael Manga
- Beth Parker
- ... and probably more to come!









Time	Typical day
09:00 - 11:00	Practical course/Projects (2h)
11:00 - 11:30	Coffee break
11:30 - 12:30	Fundamental lecture 1/2 (1h)
12:30 - 14:00	Lunch break
14:00 - 15:00	Fundamental lecture 2/2 (1h)
15:00 - 15:30	Coffee break
15:30 - 16:15	Short research course 1 (35 min + 10 min)
16:15 - 17:00	Short research course 2 (35 min + 10 min)
17:00 - 17:15	Coffee break
17:15 - 18:00	Short research course 3 (35 min + 10 min)
18:00-18:45	Poster session

We want to give the opportunity to the ESR to actively participate in the summer school organization















